

ABSTRACT

A heater wire which is applied to an impulse heat sealer, a book binding machine, a laminator, an image-creating device, and so on. A thin sheet of resistant material such as iron-chromium alloy is further thinned by rolling, properly strengthened by quenching, and processed by photo-etching so that the width of a heat-generating part is small and those of the electrodes are larger than that, thus integrally producing a heater wire. The heat-generating part of the heater wire is zigzag at such small intervals that the zigzag pattern disappears on a sealing line or plane because of heat diffusion, and the width of the zigzag is uniformly narrow and almost equal to that of the required shape. Therefore, the drawback on connection between the heat-generating part and electrodes is solved and the resistant wire is matched with the power supply voltage because of its relatively fine and long structure.